From the

INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

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PCT

NOTIFICATION OF TRANSMITTAL OF INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Rule 71.1)

Date of Mailing (day/month/year)

13 SEP 2004

Applicant's or agent's file reference

PCT/US03/17703

IMPORTANT NOTIFICATION

International application No.

International filing date (day/month/year)

Priority date (day/month/year)

PCT/US03/17703

Applicant

05 June 2003 (05.06.2003)

07 June 2002 (07.06.2002)

BLACK & DECKER INC.

- 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices)(Article 39(1))(see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/US

Mail Stop PCT, Attn: IPEA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

Facsimile No. (703) 305-3230

Authorized officer

Stephen Choi

Paralegal Specialist

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Form PCT/IPEA/416 (July 1992)



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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 0275Y-581POA	FOR FURTHER ACTION	CTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)			
International application No.	International filing date (day/mor	th/year) Priority	Priority date (day/month/year)		
PCT/US03/17703	05 June 2003 (05.06.2003)	07 June	2002 (07.06.2002)		
International Patent Classification (IPC)		1			
IPC(7): B23D 45/16 and US Cl.: 30/388	; 173/216,217				
Applicant					
BLACK & DECKER INC.					
This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.					
2. This REPORT consists of a total of 7 sheets, including this cover sheet.					
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). These annexes consist of a total of C sheets.					
I nese annexes consist of a	total of Sheets.				
This report contains indica	itions relating to the following i	ems:			
I Basis of the repo	ort				
II Priority					
III Non-establishme	ent of report with regard to nove	lty, inventive step and	industrial applicability		
IV Lack of unity of		•			
	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
VI Certain document	1				
	N 7				
Date of submission of the demand	Date	f completion of this re	port		
		Date of completion of this report			
06 January 2004 (06.01.2004)		ust 2004 (26.08.2004)	o i co		
Name and mailing address of the IPEA/L Mail Stop PCT, Attn: IPEA/US	Author	ized officer	sheile H. Vener Jeary		
Commissioner for Patents P.O. Box 1450	Stepho	n Choi	Paralegal Specialist		
Alexandria, Virginia 22313-1450	Teleph	one No. 703-308-1148	Tech. Center 3700		
Facsimile No. (703) 305-3230 Telephone No. 703-308-1146 Form PCT/IPEA/409 (cover sheet)(July 1998)					

International application No.	
PCT/US03/17703	

I.	Basi	is of the report
1.	With	regard to the elements of the international application:*
		the international application as originally filed.
	\boxtimes	the description:
		pages 1-5 as originally filed
		pages NONE, filed with the demand pages NONE, filed with the letter of
	\square	
		the claims:
		pages NONE , as originally filed pages NONE , as amended (together with any statement) under Article 19
		pages NONE , filed with the demand
		pages 6-11 , filed with the letter of 06 July 2004 (06.07.2004)
	\boxtimes	the drawings:
		pages 1-5 , as originally filed
		pages NONE , filed with the demand
	\Box	pages NONE, filed with the letter of
	Ш	the sequence listing part of the description:
	•	pages NONE, as originally filed pages NONE, filed with the demand
		pages NONE, filed with the letter of
2.	langu	regard to the language, all the elements marked above were available or furnished to this Authority in the tage in which the international application was filed, unless otherwise indicated under this item. e elements were available or furnished to this Authority in the following language which is:
		the language of a translation furnished for the purposes of international search (under Rule23.1(b)).
		the language of publication of the international application (under Rule 48.3(b)).
		the language of the translation furnished for the purposes of international preliminary examination(under Rules 55.2 and/or 55.3).
3.	With intern	regard to any nucleotide and/or amino acid sequence disclosed in the international application, the national preliminary examination was carried out on the basis of the sequence listing:
		contained in the international application in printed form.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority in written form.
	\Box	furnished subsequently to this Authority in computer readable form.
	Ħ	The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the
		international application as filed has been furnished.
		The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.
4.	K 7	The amendments have resulted in the cancellation of:
		the description, pages NONE
		the claims, Nos. 18
-		the drawings, sheets/fig NONE
). • ,		This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**
743	repor	ement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in t as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17). placement sheet containing such amendments must be referred to under item 1 and annexed to this report.

International application No. PCT/US03/17703

International application No.

PCT/US03/17703

1. Certain published documen	ts (Rule 70.10)		
Application No	Publication Date	Filing Date	Priority date (valid claim

Patent No. US 2003/0121679

VI. Certain documents cited

Publication Date (day/month/year)
03 July 2003 (03.07.2003)

Filing Date (day/month/year)
27 December 2001 (27.12.2001)

Priority date (valid claim) (<u>day/month/year)</u> NONE

2. Non-written disclosures (Rule 70.9)

Kind of non-written disclosure

Date of non-written disclosure (day/month/year)

Date of written disclosure referring to non-written disclosure (day/month/year)

Form PCT/IPEA/409 (Box VI) (July 1998)

International application No.

PCT/US03/17703

VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

The drawings are objected to under PCT Rule 66.2(a)(iii) as containing the following defect(s) in the form or content thereof: they do not include the following reference sign(s) mentioned in the description: 20.

The description is objected to as containing the following defect(s) under PCT Rule 66.2(a)(iii) in the form or contents thereof: page 3, line 25, "set12" should be --set 12--.

Form PCT/IPEA/409 (Box VII) (July 1998)



International application No.

PCT/US03/17703

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the questions whether the claims are fully supported by the description, are made:

Claim 43 is objected to under PCT Rule 66.2(a)(v) as lacking clarity under PCT Article 6 because claim 43 is indefinite for the following reason(s): it is not clear what structure is set forth by "in said left hand configuration, said left hand guard assembly is mounted to said first side of said handle in said right hand configuration, said right hand guard assembly is mounted to said second side of said handle".

Form PCT/IPEA/409 (Box VIII) (July 1998)

International application No. PCT/US03/17703

Supplemental Box
(To be used when the space in any of the preceding boxes is not sufficient)
·
V.1. Reasoned Statements:
The opinion as to Novelty was positive (Yes) with respect to claims 4-5, 9, 14-15, 17, 20, 26-27, 30, 33-42
The opinion as to Novelty was negative (No) with respect to claims 1-3, 6-8, 10-13, 16, 19, 21-25, 28-29, 31-32, 43
The opinion as to Inventive Step was positive (Yes) with respect to claims 33-42 The opinion as to Inventive Step was negative(NO) with respect to claims 1-17, 19-32, 43
The opinion as to Industrial Applicability was positive (YES) with respect to claims 1-17, 19-22, 43
The opinion as to Industrial Applicability was negative(NO) with respect to claims NONE
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DT15 Rec'd PCT/PTO 0 7 DEC 2004

CLAIMS

What is claimed is:

 A modular power tool comprising: drive system;

a housing defining a chamber for said drive system;

a handle defining a through cavity, having a first side and a second side, said first side of said handle engages one of said drive system and said housing and said second side of said handle engages the other of said drive system and said housing; and

wherein, said drive system, said housing and said handle are adaptable for use in a left and right hand orientation, wherein in said left hand orientation, said housing is mounted on said first side of said handle and in said right hand orientation, said housing is mounted on said second side of said handle.

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- The modular power tool of claim 1 further including: a guard coupled to said drive system; and a shoe mounted to said guard.
- 20 3. The modular power tool of claim 1 wherein said drive system further includes:

a motor; and

a gear case coupled to said motor.

- 4. The modular power tool of claim 3, wherein said gear case includes a pair of substantially symmetrical air flow passages which enables said gear case to provide ventilation regardless of orientation.
- 5. The modular power tool of claim 4 wherein said air flow passages have substantially symmetrical fins and ribbing.
 - 6. The modular power tool of claim 1 wherein said handle is adaptable to receive a power supply.

- 7. The modular power tool of claim 1 wherein said handle includes left and right shells.
- 8. The modular power tool of claim 1 wherein said drive system 5 further includes a flange for coupling to said handle.
 - 9. The modular power tool of claim 1 wherein said housing further includes a flange for coupling to said handle.
- 10 10. The modular power tool of claim 1 wherein said housing is symmetrical.
 - 11. The modular power tool of claim 1 wherein said handle, said drive system and said housing are connected by a plurality of common fasteners.
 - 12. A modular power tool comprising:
 - a motor;

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- a motor housing defining a chamber for said motor;
- a handle including a first side and a second side and defining a through cavity extending from said first side to said second side;
 - a gear case coupled to said motor;
 - a guard assembly coupled to said gear case; and
 - wherein, said handle and said gear case are adaptable for use in a left and a right hand orientation, wherein in said left hand orientation, said housing is mounted on said first side of said handle and in said right hand orientation, said housing is mounted on said second side of said handle.
 - 13. The modular power tool of claim 12 wherein said guard assembly includes a guard and a shoe assembly coupled to said guard.
 - 14. The modular power tool of claim 12 wherein said gear case includes a pair of substantially symmetrical air flow passages each of which provides a vent passage in the respective left and right hand orientation.



- 15. The modular power tool of claim 14 wherein said air flow passages have substantially symmetrical fins and ribbing.
- 16. The modular power tool of claim 12 wherein said handle is a clam 5 shell handle.
 - 17. The modular power tool of claim 14 wherein said handle is adaptable to receive a power supply.
- 10 18. CANCELLED

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- 19. The modular power tool of claim 12 wherein said motor further includes a flange for coupling to said handle.
- 15 20. The modular power tool of claim 12 wherein said motor housing further includes a flange for coupling to said handle.
 - 21. The modular power tool of claim 12 wherein said motor housing is symmetrical.
 - 22. The modular power tool of claim 12 wherein said motor, said gear case, said handle, said guard assembly and said housing are connected by a plurality of common fasteners.
- 23. A method for assembling a modular power tool, comprising:
 inserting a drive system through a cavity in a symmetrical handle
 such that said drive system is supported through said cavity;

fastening a drive housing to said symmetrical handle;
wherein, said drive housing, said symmetrical handle, and said
drive system are coupled with a plurality of common fasteners.

24. The method of claim 23 further including:fastening a guard assembly to said drive housing.



- 25. The method of claim 23 wherein said drive system includes: a motor; and a gear case coupled to said motor.
- 5 26. The method of claim 25 wherein said gear case includes a pair of substantially symmetrical air flow passages, said air flow passages have substantially symmetrical fins and ribbing.
- 27. The method of claim 23 further comprising the step of mounting a battery to said handle.
 - 28. The method of claim 23 wherein said handle is a clam shell handle.
- 29. The method of claim 23 wherein said drive system further includes a flange for coupling to said handle.
 - 30. The method of claim 23 wherein said drive housing further includes a flange for coupling to said handle.
- 20 31. The method of claim 23 wherein said drive housing is symmetrical.
 - 32. The method of claim 24 wherein said guard assembly includes a guard and a shoe assembly coupled to said guard.
- 25 33. A modular power tool kit, comprising:
 - a plurality of different sized motors each including a mounting flange portion having a common mounting hole pattern;
 - a gear case adapted to couple to each of said plurality of different sized motors;
- a handle having a motor opening adapted to receive each of said plurality of different sized motors therein;
 - a left hand guard assembly and right hand guard assembly each adapted to be mounted to said gear case; and

wherein said handle, said gear case and said plurality of different sized motors couple to said left and right hand guard assemblies in both a left and right hand configuration.

- 5 34. The kit of claim 33 wherein said gear case has a pair of substantially symmetrical air flow passages which enables said gear case to provide ventilation in both a left hand and right hand configuration.
- 35. The kit of claim 34 wherein said air flow passages have substantially symmetrical fins and ribbing.
 - 36. The kit of claim 33 further comprising a battery adapted to be mounted to said handle.
- 15 37. The kit of claim 33 wherein said handle is a clam shell handle.
 - 38. The kit of claim 33 further including a motor housing, including a flange for coupling to said handle.
- 20 39. The kit of claim 38 wherein said motor housing is symmetrical.

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- 40. The kit of claim 33 wherein said left and right hand guard assemblies each include a saw guard and a saw shoe assembly coupled to said saw guard.
- 41. The kit of claim 33 wherein said plurality of different sized motors, said gear case, said handle, and said left and right hand guard assemblies are adapted to be connected by a plurality of common fasteners.



- 42. A modular power tool kit, comprising;
- a plurality of different sized motors each including a mounting flange portion having a common mounting hole pattern;
- a gear case adapted to couple to each of said plurality of different sized motors;
 - a handle having a motor opening adapted to receive each of said plurality of different sized motors therein;
 - a guard assembly adapted to be mounted to said gear case; and wherein said handle, said gear case and said plurality of different sized motors couple to said guard assembly.
 - 43. A modular power tool kit, comprising;
 - a motor:

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- a gear case adapted to be mounted to said motor;
- a handle having a motor opening adapted to receive said motor therein, said handle including a first side and a second side with said motor opening extending from said first side through said second side;
 - a left hand guard assembly and right hand guard assembly each adapted to be mounted to said gear case; and
 - wherein said handle, said gear case and said motor couple to said left and right hand guard assemblies in both a left and right hand configuration, wherein in said left hand configuration, said left hand guard assembly is mounted to said first side of said handle in said right hand orientation, said right hand guard assembly is mounted to said second side of said handle.

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